chris vandevelde

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summary of qualifications

- Recent programming experience in **Python**, **Javascript**, and **Java**, in **HTML/CSS**-based, **Android** and server environments.
- Strong interest in **Machine Intelligence**, **Natural-Language Processing**, and **Human-Computer Interaction**.
- Experience with the modern software development environment (version control, continuous integration, automated testing, etc.) in Mac, Linux, and Windows environments.
- Bilingual in **English** and **French**.

experience

apple
San Jose, California
Speech Web Applications Engineer
October 2015 - Present (Full-Time)

- Developing tools across the full stack to aid the Siri Speech team build a world-class automated speech recognition platform.

primal
Kitchener, Ontario
Software Developer
March 2015 - October 2015 (Full-Time)

- Contributed features and bug fixes on several **Scala** applications using **natural-language processing** and **machine-learning** techniques to measure document similarity, retrieve similar content, and delight the user with the experience.
- Collaborated with co-workers in an Agile programming environment with an emphasis on well-designed, peer-reviewed technical solutions, and fully-tested and thoroughly-reviewed code.

trendradius
Kitchener, Ontario
Software & Machine Learning Developer
July 2014 - March 2015 (Full-Time)

- Developed on a web-based application using **Node.js**, **Express**, and **MongoDB**, a front-end Javascript application based on **Backbone.js** and **Twitter Bootstrap**, and a backend processing application written in Java.
- Created intelligent **sentiment analysis** tool in Java using OpenNLP and SentiWordNet, and **feed-forward neural network** to suggest matches across text-based content collections.
- Led efforts to ensure **Continuous Integration** and Deployment across products, set up Jenkins CI server and testing using Mocha.js and JUnit, consolidated build processes using NPM and Maven.

triangulation device
Waterloo, Ontario
App Developer and Programmer
August 2014 - Present (Part-Time)

- Developed an **Android** client for a participatory sound art project, led by Professor Jessica Thompson, University of Waterloo.
- Used a variety of sensors (including microphone, GPS, accelerometer) to provide input to interface with an existing PureData backend.
- Created re-usable Bluetooth IPC layer and messaging library for data transfer between two Android clients.

canopy labs
Toronto, Ontario
Data-Mining & Machine Learning Developer
April 2013 - August 2013 (Full-Time)

- Fixed bugs and added features to the full stack of the Canopy Labs customer analytics platform throughout a series of inter-related applications.
- Worked in a variety of environments (both new and familiar) including Python, PHP, C++, JavaScript, HTML5/CSS, R, shell scripting on both Mac and Linux operating systems.
- Worked with a variety of software development tools including Git, FogBugz, JIRA, Scons, and Selenium.

square — San Francisco, California
Android Developer — Jan 2012 – April 2012 (Full Time), Sept 2012 – Dec 2012 (Full Time)

- Helped develop and build features, and identify and fix bugs across both Square's Wallet and Register **Android** applications.
- Coded across the entirety of the application, from layout files and UI to helper libraries to backend logic, home-screen app widgets and more.
- Contributed to maintaining software quality via tests using Android testing frameworks Robolectric and Robotium.
- Worked primarily on OS X using **IntelliJ IDEA**, along with **git** and both **ant** and **maven** for building.

education

university of waterloo — Waterloo, Ontario
Bachelor of Applied Sciences in Systems Design Engineering — September 2008 – June 2014

Relevant Courses

- Pattern Recognition – Methods for classifying and intepreting measured data in groups.
- Machine Intelligence – Intelligent systems, artificial intelligence techniques.
- Simulating Neurobiological Systems – Neural computation, modelling techniques.
- Control Systems – Controls engineering, systems theory, PID contorl and action.
- Data Structures & Algorithms – Data structure and algorithm characteristics and use.

clarkson secondary school — Mississauga, Ontario
Ontario Secondary School Diploma — June 2007
French Immersion Diploma — June 2007

awards

university of waterloo — Waterloo, Ontario
President's Scholarship — September 2008

clarkson secondary school — Mississauga, Ontario
Black Charger Award (800+ hours of extra-curricular involvement) — September 2007
Six Principal's Reception awards (awards for school commitment) — September 2006 – June 2008

activities & interests

- Drummer, Various jazz bands & combos, Mississauga & Waterloo, since January 2003
- Interested in cognitive science, human-computer interaction, and artificial intelligence. Maintains an online notebook at http://blog.chris.vandevel.de